

Features

- Voltage Input Range 180~550V AC or 254~848V DC
- Operating Temperature Range: -30°C~+85°C
- Built-in DC OK relay Contact
- High-Efficiency up to 90.5%
- Safety Standards to EN/BS EN 62368-1
- Output SCP, OCP, OVP, OTP
- Three Years Warranty





Ideal Power's 56YSDW60-xy 60W DIN Rail Mount AC/DC Power Supply Converter Series are certified to UKCA, CE, cULus & UL 661010-1/BS EN 62368-1/EN 62368-1 Standards and comply with the relevant Efficiency Regulations. These are primarily used in ITE, Audio & Video Industries and customised solutions are available upon request.

Models						
Model Number*	Output Power (W)	Voltage Adj Range (V)	Current Range (A)	Efficiency at 230V AC (%) Typ	Over Voltage Range (V)	Ripple & Noise (mVp-p)
56YSDW60-5	50	5~6	10	83.5	6.2~7.2	100
56YSDW60-12	60	12~15	5	86.5	16~18	120
56YSDW60-24	60	24~29	2.5	89	31~37	150
56YSDW60-48	60	48~57	1.25	90.5	58~60.5	200

Input Specifications						
	Conditions		Min	Тур	Max	Unit
Input Voltage Range	AC input		180		550	VAC
	DC input		254		848	VDC
Frequency Range			47		63	Hz
AC Current	400V AC			0.4		Α
	230V AC			0.7		- '`
Inrush Current		(OLD STA	RT 50A/4	100V AC 30	A/230V AC
Leakage Current		<2mA/530V ac				

56YSDW60-xy AC-DC PSU Series

2000ms, 70ms, 10ms/230VAC at full load



Environmental Characteristics

Hold up Time

Output Specifications Conditions Unit Min Typ Max Voltage Tolerance +2.0 <u>+</u>0.5 Line Regulation ----% <u>+</u>1.5 56YSDW60-5 Load Regulation +0.5 Others Set up, Rise Time 1000ms, 70ms, 20ms/400VAC at full load

Protection	
	>105%-135% rated output power:
Overload Protection	Protection type: Hiccup mode when output voltage <50%, recovers automatically when the fault condition is removed. Constant current limiting within <50%~100% rated output voltage recovers automatically when the fault condition is removed.
Over Voltage Protection	Shut down o/o voltage, repower on to recover.
Protection Type	Shut down o/p voltage repower on to recover.
Over Temperature	Shut down o/p voltage, re-power on to recover

Item **Operating Conditions** Operating Temperature -30°C to 85°C (Refer to "Derating Curve") **Operating Humidity** 20 ~ 90% RH non-condensing Storage Temperature -40°C ~ 85 °C Cold Start -40°C Temp Coefficient + 0.03%/°C (0~60°C) Vibration 10~500Hz, 2G 10min/1cycle, 60min each along x, y, z axes. Mounting clip: Compliance to IEC60068-2-6 **MTBF** 1854.1K hrs min, Telcordia SR-332 (Bellcore) Operating Altitude 2000 meters Over Voltage Category II: According to EN 61558, EN 50178, EN 60664-1, EN62477-1, EN 60204-1: Altitude up to 200 meters **MTBF** 160K hrs min, Telcordia SR-332 (Bellcore)

Safety & EMC	
Safety Standards	UL61010-1, UL61010-2-1, BS EN/EN62368-1
Withstand Voltage	I/P-O/P:4.7KVAC I/P-FG:2.5KVAC O/P-FG:0.5KVAC O/P-DC OK:0.5KVAC
Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG:100M Ohms/ 500VDC/25°C/70% RH
EMC Emissions	BS EN/EN55032, BS EN/EN61000-3-2, -3
EMC Immunity	BS EN/EN61000-4-2,3,4,5,6,8,11

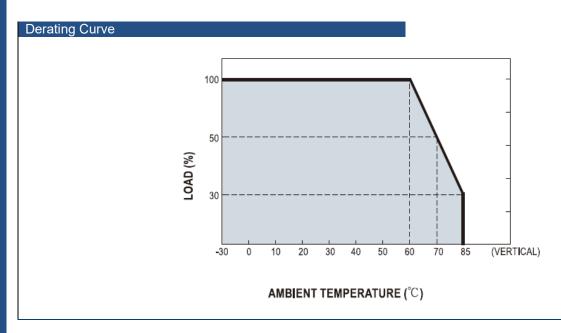


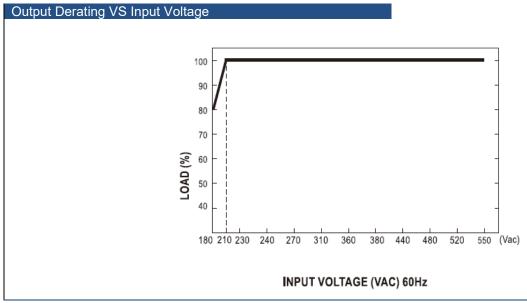
Mechanical Specifications

Dimension	32 x 100.5 x 125mm (L x W x H)
Weight	0.45kg
DC OK Signal	Relay contact ratting(max): 30V/1A restive

Note:

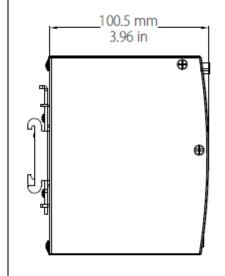
- 1. All parameters NOT specially mentioned at 400V AC input rated load and 25°C of ambient temperature.
- 2. Ripple & Noise are measured at 20MHZ bandwidth using a 12" twisted pair-wire terminated with a 0.1uF & 47uF parallel capacitor.
- 3. Installation clearances: top with 40mm, bottom with 20mm, left and right with 5mm. Increase the space to 10-15mm when the adjacent device is the heat source.
- 4.The ambient temperature derating of 3.5°C/1000m for operating higher than 2000m(6500ft)
- 5. The power supply is considered a component which will be installed into the final equipment. The final equipment must be re-confirmed to meet EMC directives. For guidance on performing these EMC tests, please refer to "EMI testing of component power supplies."

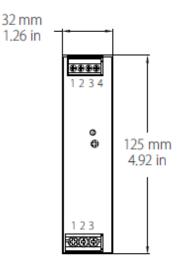






Dimensions and Recommended Layout



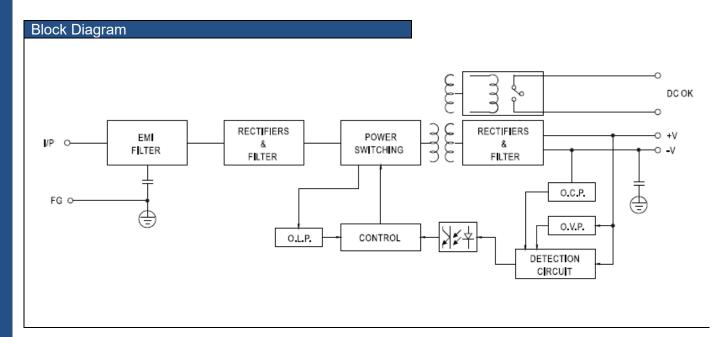


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No.	Description
1	FG ⊕
2	AC/L2
3	AC/L1

Output

No.	Description
1	DC OUTPUT-V
2	DC OUTPUT+V
3,4	Relay Contact



DC OK Relay Contact			
Contact Close	PSU turns ON/DC OK		
Contact Open	PSU turns OFF/DC Fail		
Contact Ratings (max)	30V/1A resistive load		